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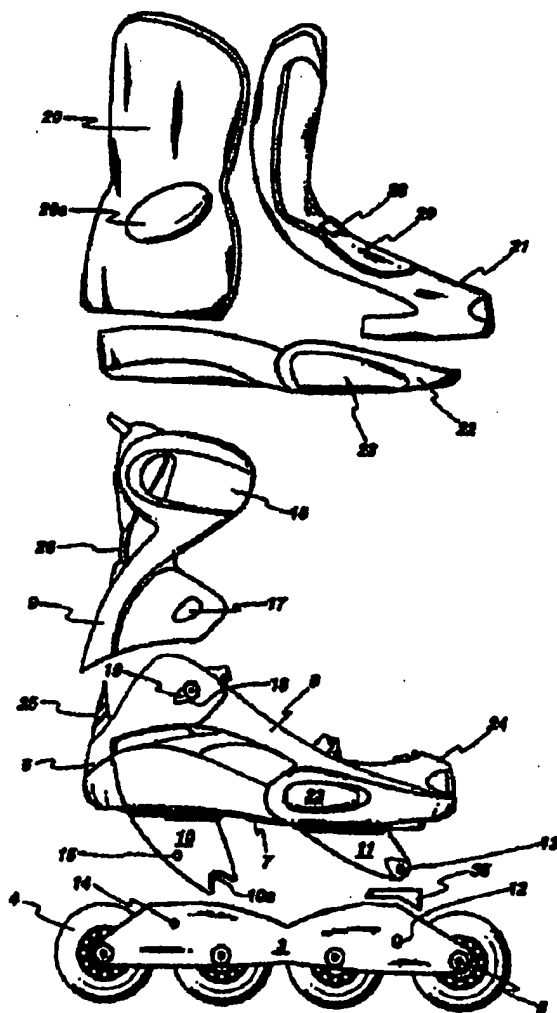
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- (72) FULLUM, JEAN-FRANÇOIS, CA
(71) BAUER NIKE HOCKEY INC., CA
(51) Int.Cl.⁷ A63C 17/00, A63C 17/06
(54) CHAUSSURE POUR PATIN A ROULETTES ERGONOMIQUE
AVEC ABSORBEUR DE CHOCS
(54) ERGONOMIC SKATE BOOT WITH SHOCK ABSORBER



(57) L'invention concerne un patin à roulettes en ligne, comprenant une chaussure avec au moins une paire d'extensions sensiblement parallèles s'étendant vers le bas, et plus particulièrement une paire avant (11), un châssis (3) inférieur à roulettes, conçu pour être supporté par une pluralité de roulettes (4) rotatives montées en

(57) An in-line roller skate comprising a boot with at least one pair of downwardly extending substantially parallel extensions, more particularly one forward pair (11), a lower truck chassis (3) adapted to be supported by a plurality of rotatably mounted in-line wheels (4) defining a rolling plane, said chassis (3) including a pair of front





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(87) 1999/11/11

ligne, définissant un plan de roulement. Le châssis comprend une paire de fentes (12) avant sensiblement allongées, s'étendant le long d'un axe sensiblement normal, venant en contact avec le plan de roulement, le châssis étant relié à une partie arrière de la chaussure à l'aide d'un élément de type pivot et aux extensions avant (11) par un élément de connexion coulissant, conçu de manière à se déplacer dans les fentes. Le patin comprend en outre, un élément élastique (35) placé entre une partie avant supérieure du châssis et une partie avant d'une semelle extérieure de la chaussure.

substantially elongated slots (12) extending along an axis substantially normal with relation to said rolling plane, said chassis (3) being connected to a rear portion of the boot by a pivot-like member and to said front extensions (11) by a slidable connecting member adapted to move within said slots, said skate further including a resilient member (35) located between a front upper part of the chassis (3) and a front portion of an outer sole of the boot.



CLAIMS

1. An in-line roller skate comprising:
 - a boot for enclosing a skater's foot and having a front portion
 - 5 substantially corresponding to a toes region of a wearer's foot, and a rear
 - portion substantially corresponding to the heel region of a wearer's foot;
 - a lower truck chassis adapted to be supported by a plurality of rotatably
 - mounted in-line wheels defining a rolling plane;
 - said chassis being pivotally connected to said rear portion of the boot by
 - 10 a pivot-like member and to said front portion of the boot by a translating
 - connection member, said translating connection member being adapted
 - to provide a sliding movement of the boot with relation to the chassis
 - along a given length in a direction substantially normal with relation to
 - said rolling plane;
 - 15 -said skate further including a resilient member located between a front
 - portion of the chassis and said front portion of the boot.
2. An in-line roller skate according to claim 1, wherein said pivot-like member is
- 20 comprised of a pivot pin.
3. An in-line roller skate according to claim 1, wherein said pivot-like member is
- comprised of hinge-like member.
4. An in-line roller skate according to claim 3, wherein said hinge-like member is
- 25 of resilient type.
5. An in-line roller skate according to claim 1, wherein said translating
- connection member is comprised of an elongated slot, provided in either one
- of said chassis or said boot, adapted to receive a translating member,
- 30 adapted to connect said boot to said chassis.
6. An in-line roller skate according to any one of preceding claims, further

comprising a stabilizing member, extending from either one of said boot or said chassis to cooperate with a corresponding member, provided on the other of said boot and said chassis, said members being adapted to provide lateral support of the boot with relation to the chassis.

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7. An in-line roller skate comprising:

-a boot with at least one pair of downwardly extending substantially parallel extensions, more particularly one forward pair,

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-a lower truck chassis adapted to be supported by a plurality of rotatably mounted in-line wheels defining a rolling plane;

said chassis including a pair of front substantially elongated slots extending along an axis substantially normal with relation to said rolling plane;

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said chassis being connected to a rear portion of the boot by a pivot-like member and to said front extensions by a slidable connecting member adapted to move within said slots;

said skate further including a resilient member located between a front upper part of the chassis and a front portion of an outer sole of the boot.

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8. An in-line roller skate according to claim 7, wherein said boot further comprises a rear pair of downwardly extending substantially parallel extensions.

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9. An in-line roller skate according to claim 8, wherein said pair of rear extensions includes a pair of co-axial apertures.

10. An in-line roller skate according to claim 8 or 9, wherein said chassis is connected to said rear extensions.

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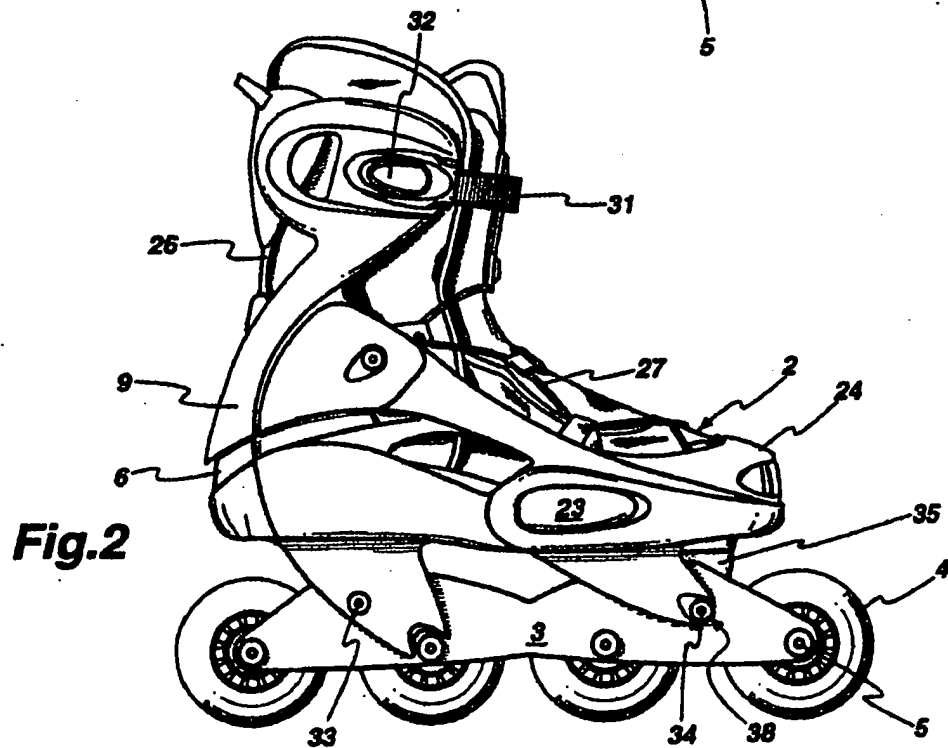
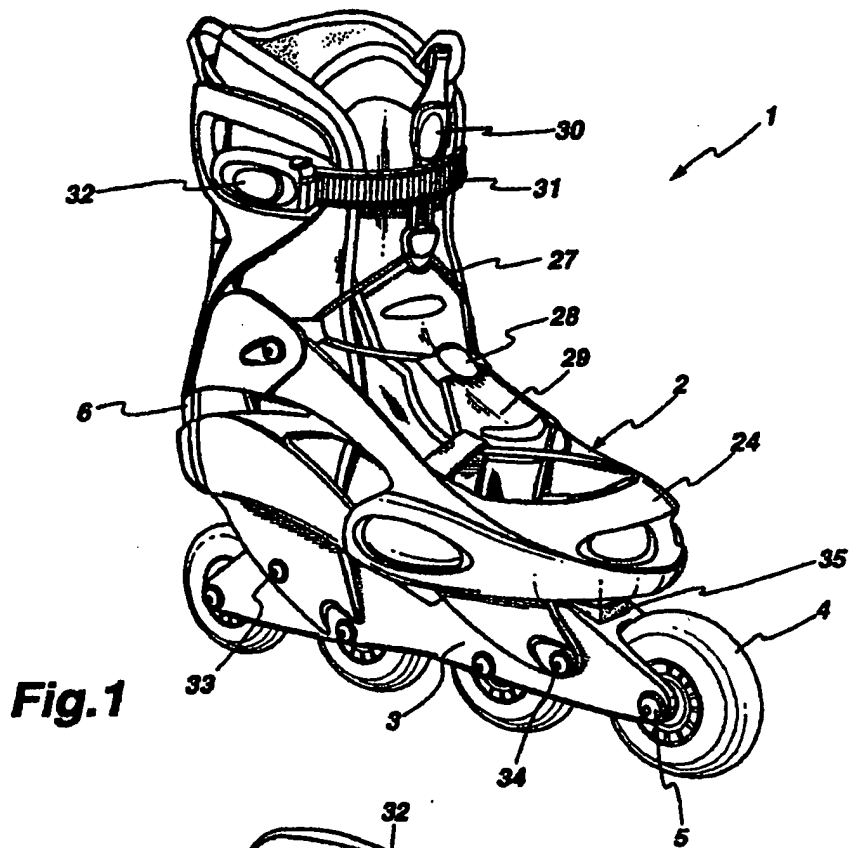
11. An in-line roller skate according to claim 7, 8 or 9, wherein said chassis includes a pair of co-axial rear apertures.

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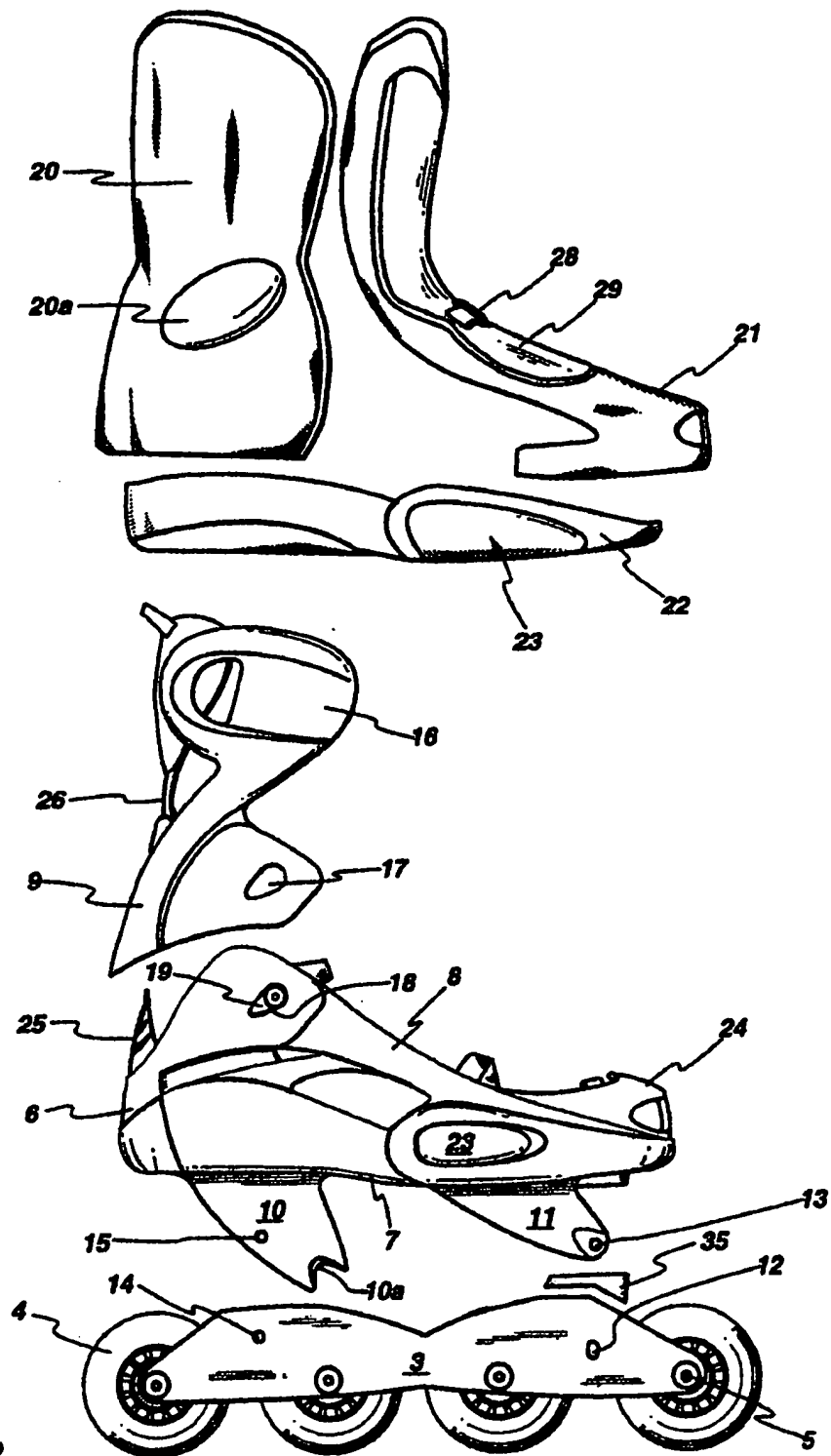
12. An in-line roller skate according to any one of claims 8 to 11, wherein said chassis is connected to said rear extensions with pivot members provided in said apertures.
- 5 13. An in-line roller skate according to any one of claims 7 to 12, wherein resilient member is comprised of a resilient pad.

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**Fig.3**

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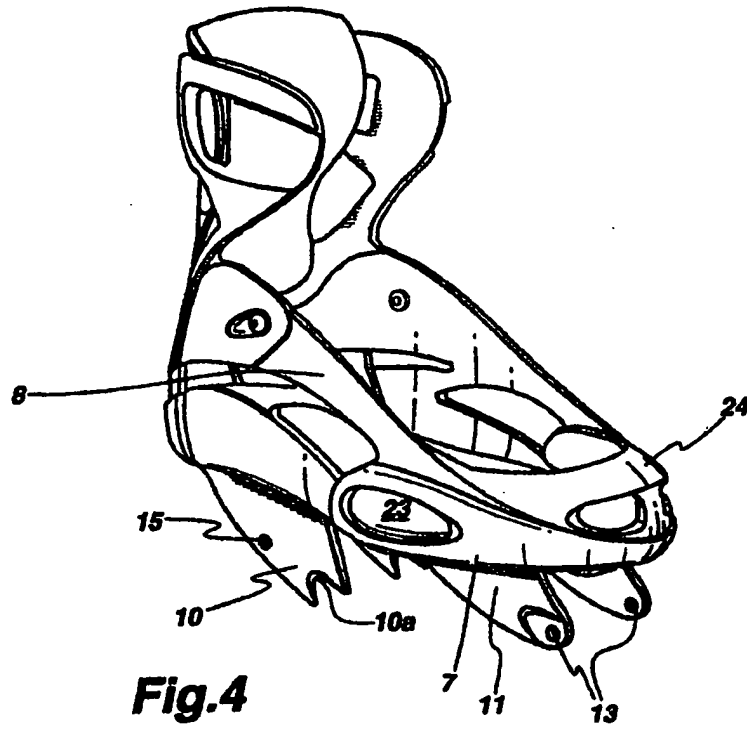


Fig. 4

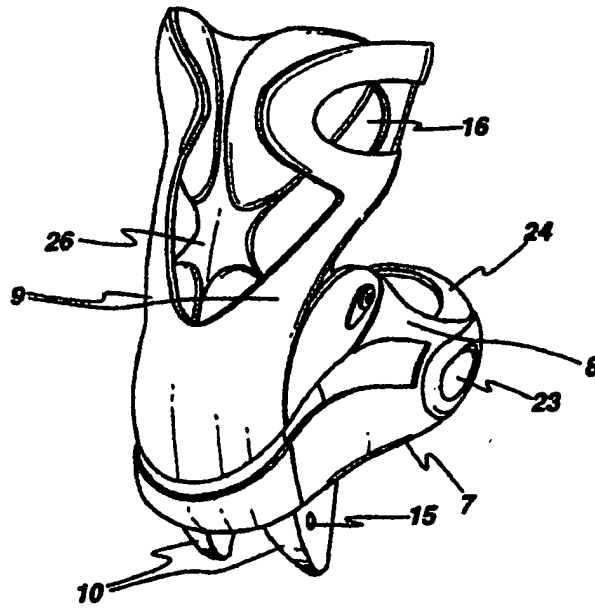
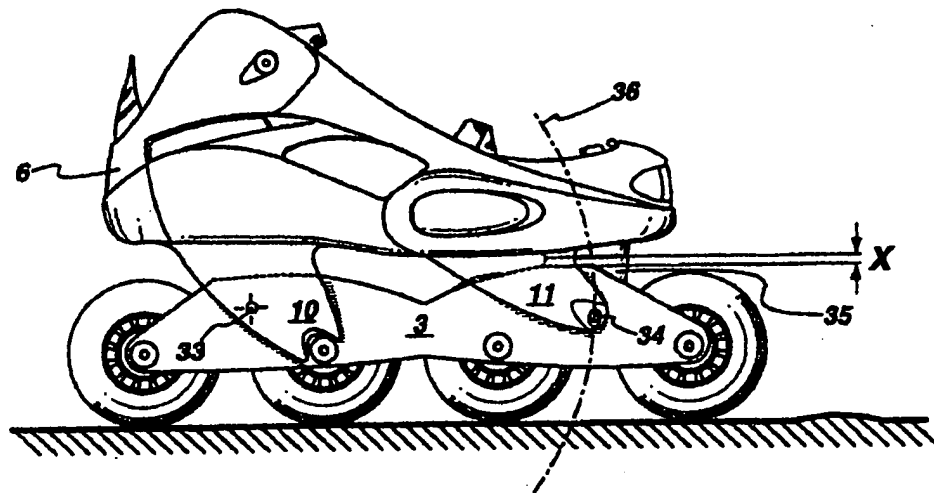
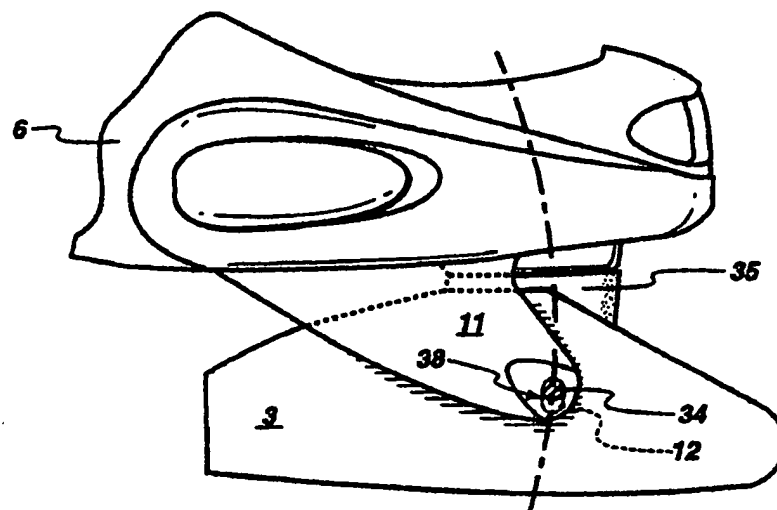
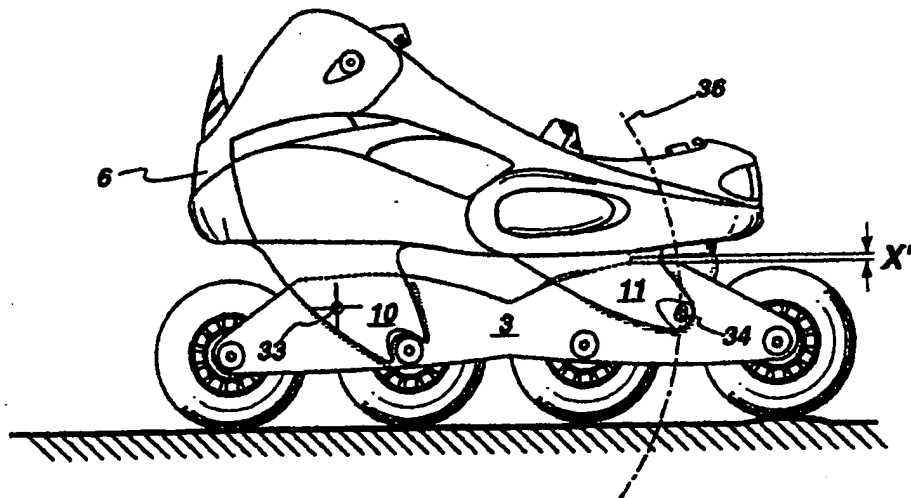
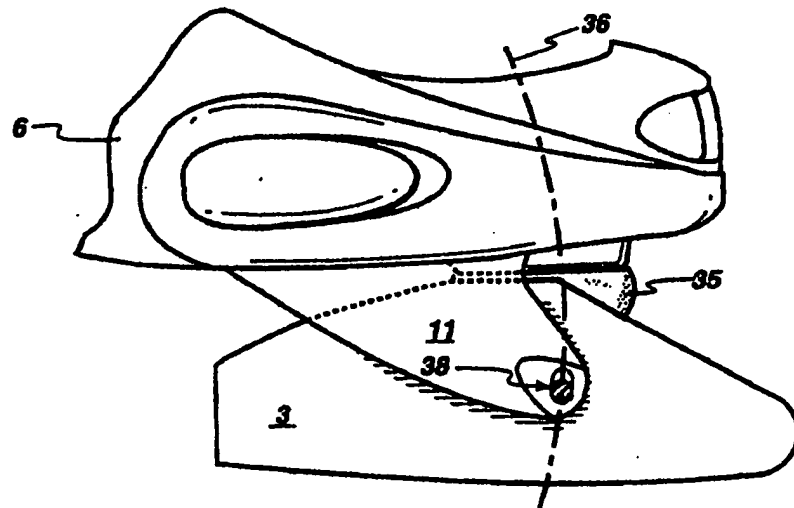


Fig. 5

**Fig. 6****Fig. 6a**

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**Fig. 7****Fig. 7a**

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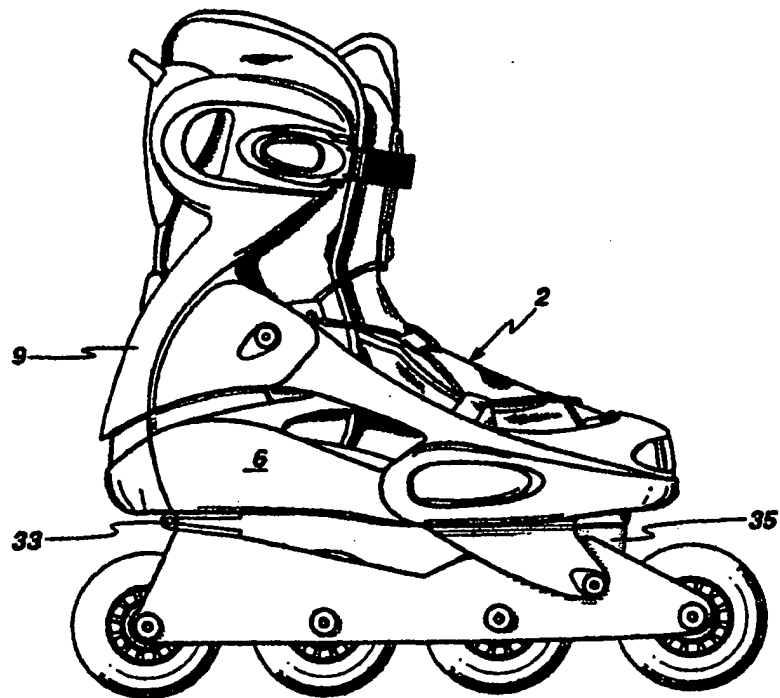


Fig.8

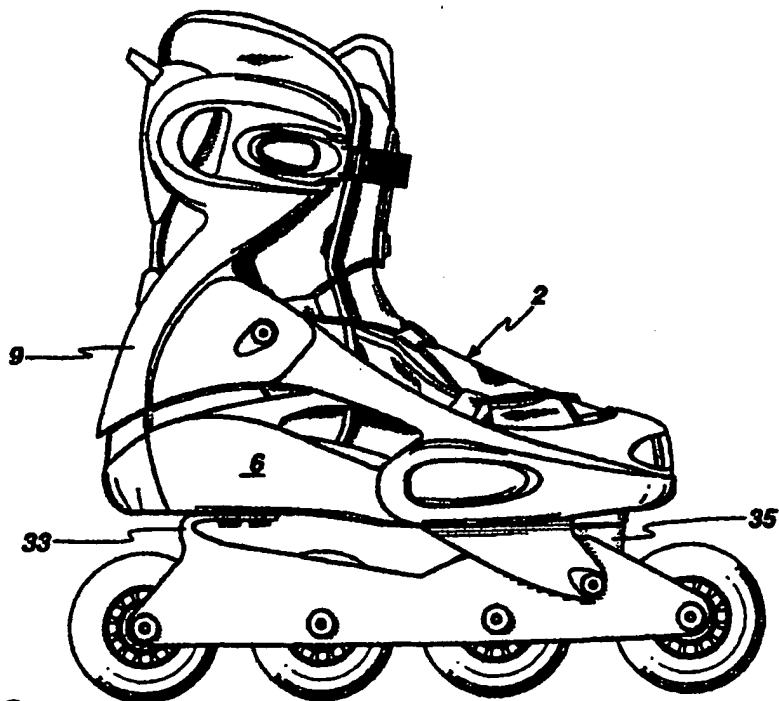
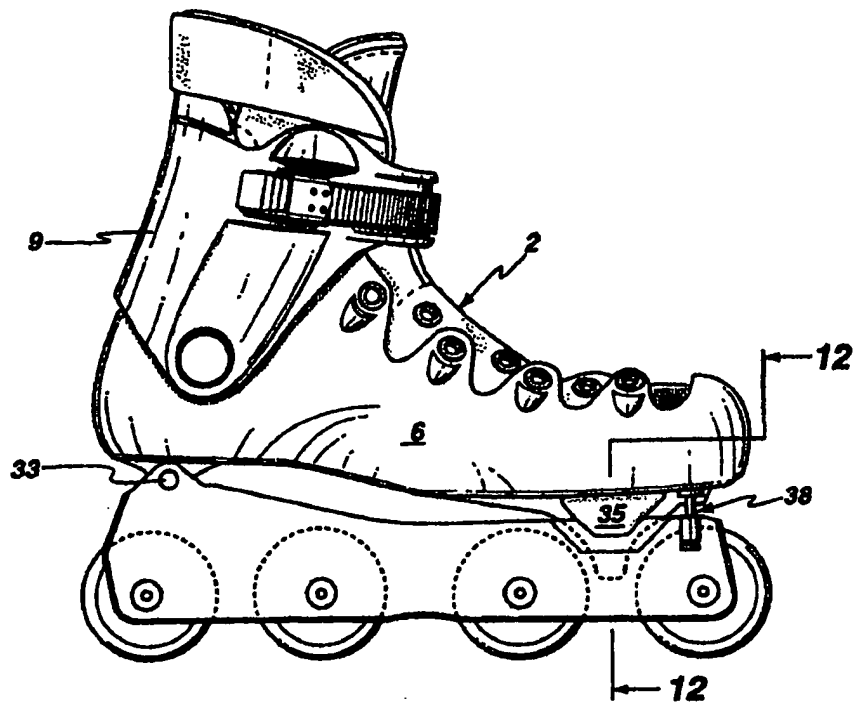
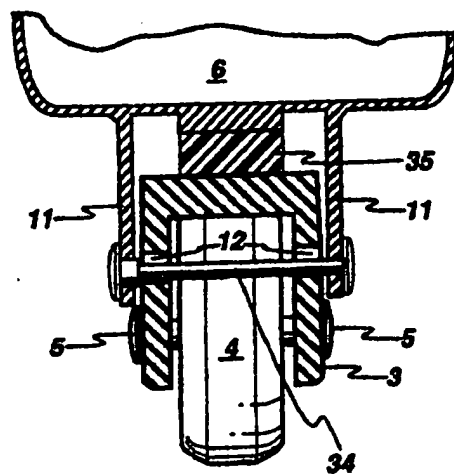
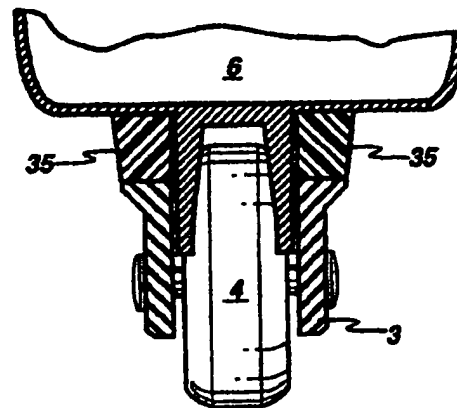


Fig.9

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**Fig. 10****Fig. 11****Fig. 12**